NAME OF WORK : IMPROVEMENTS AND RESTORATION OF ROAD IN WARD NO. 05 (PACKAGE 01) (PACKAGE CONSISTS OF 6 WORKS).

Quality Control Reports

First and Part Bill

(Book No : 01)

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QC ABSTRACT

ME OF WORK: Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists Works).

	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

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	RCC(M20)	Compressive Strength(7days and 28days)	7 set /100-200 cum	175.35	14	14
	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
0	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
1	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
2	TACK COAT	Rate of spread	One Test		1	1
3	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2022-12-14-16** **Date: 22-06-2022**

Project Name : Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).

Agency : Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097

Customer's Reference : BBMP/EE/BTP/WO/48/2022-23

Date of Receipt : 20-06-2022

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6

Date of test : 20-06-2022

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 18-07-2022

Lab ID	:	CP-2022-12-14-16
Project Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
Agency	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/48/2022-23
Date of Receipt	:	20-06-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	20-06-2022
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Date: 22-06-2022

Lab ID	:	CP-2022-12-14-16
Project Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
Agency	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/48/2022-23
Date of Receipt	:	20-06-2022
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-06-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-12-14-16** **Date: 22-06-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.22	–

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Date: 22-06-2022

Lab ID	:	CP-2022-12-14-16
Project Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
Agency	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
Customer Reference	:	BBMP/EE/BTP/WO/48/2022-23
Date of Receipt	:	20-06-2022
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-06-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-12-14-16

Date: 22-06-2022

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Date: 22-06-2022

Lab ID	:	CP-2022-12-14-16
Project Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
Agency	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/48/2022-23
Date of Receipt	:	20-06-2022
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	20-06-2022
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	44	76	7.6	92.4	60-95	75-100	85-100	95-100
4	1.18 mm	215	291	29.1	70.9	30-70	55-90	75-100	90-100
5	600 micron	245	536	53.6	46.4	15-34	35-59	60-79	80-100
6	300 micron	201	737	73.7	26.3	5-20	8-30	12-40	15-50
7	150 micron	178	915	91.5	8.5	0-10	0-10	0-10	0-15
8	Pan	85	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-12-14-16

Date: 22-06-2022

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.42	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	8.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Date: 21-06-2022

ID	:	CP-2022-12-14-16
ect Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
ncy	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
tomer's Reference	:	BBMP/EE/BTP/WO/48/2022-23
e of Receipt	:	20-06-2022
ple Type	:	JSW
rence to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
of test:	:	20-06-2022

o	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
	JSW	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
	JSW	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

e results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Date: 24-06-2022

D	:	CP-2022-12-14-16
t Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
y	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
mer's Reference	:	BBMP/EE/BTP/WO/48/2022-23
f Receipt	:	20-06-2022
le Type /Size	:	Precast Cover Slab-100mm Thick
nce to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
f test	:	20/06/2022

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

esults obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Date: 24-06-2022

D	:	CP-2022-12-14-16
ct Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
y	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
mer's Reference	:	BBMP/EE/BTP/WO/48/2022-23
f Receipt	:	20-06-2022
le Type /Size	:	Precast Cover Slab-250mm Thick
nce to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
f test	:	20/06/2022

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	100.03	100.36	1.119	7857	140.5	17.9	16.6	20.8
Cover Slab-2	100.02	100.54	1.128	7856	145.5	18.5	17.2	21.5
Cover Slab-3	100.04	100.69	1.163	7859	140.5	17.9	16.6	20.8

esults obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/07/2022

ID	:	CP-2022-12-14-16
ect Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
ncy	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
tomer's Reference	:	BBMP/EE/BTP/WO/48/2022-23
e of Receipt	:	27-06-2022
tomer ID	:	Darin Bottom Raft-Palanahalli Road
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
e of test	:	01/07/2022

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Darin Bottom Raft-Palanahalli Road	M20	24/06/2022	01/07/2022	150.69 X 150.31 X 150.79	22651	8.647	367.8	16.2	16.9
	Darin Bottom Raft-Palanahalli Road	M20	24/06/2022	01/07/2022	149.69 X 150.49 X 151.44	22527	8.662	405.9	18.0	
	Darin Bottom Raft-Palanahalli Road	M20	24/06/2022	01/07/2022	150.52 X 150.11 X 151.98	22594	8.148	368.6	16.3	

he results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro ★ Sig..... Date..... ★ BANGALORE

ಸಹಾಯಕ ಕಾರ್ಯ ನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ ಬಿ ಎಂ.ಪಿ ಬೆಂಗಳೂರು - 26

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/07/2022

ID	:	CP-2022-12-14-16
ect Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
ncy	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
omer's Reference	:	BBMP/EE/BTP/WO/48/2022-23
of Receipt	:	27-06-2022
omer ID	:	Darin Bottom Raft-Palanahalli Road
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	22/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Darin Bottom Raft-Palanahalli Road	M20	24/06/2022	22/07/2022	149.71 X 149.33 X 149.53	22356	8.140	478.2	21.4	22.4
Darin Bottom Raft-Palanahalli Road	M20	24/06/2022	22/07/2022	149.51 X 150.76 X 151.00	22540	8.100	515.1	22.9	
Darin Bottom Raft-Palanahalli Road	M20	24/06/2022	22/07/2022	151.25 X 151.44 X 151.85	22905	9.050	528.2	23.1	

: results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

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Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Date: 24-06-2022

Lab ID	:	CP-2022-12-14-16
Project Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
Agency	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/48/2022-23
Date of Receipt	:	20-06-2022
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	20-06-2022
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	55	55	5.5	94.5	90-100
3	1.18 mm	202	257	25.7	74.3	70-100
4	600 micron	248	505	50.5	49.5	40-100
5	300 micron	204	709	70.9	29.1	5-70
6	150 micron	175	884	88.4	11.6	0-15
7	Pan	116	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2022-12-14-16** **Date: 24-06-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.98	–
2	Specific Gravity	2.54	–
3	Material finer than 75 micron(%)	11.9	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.92	–
5	Loose Bulk Density (Kg/litre)	1.78	–

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/07/2022

ID	:	CP-2022-12-14-16
ect Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
ncy	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
tomer's Reference	:	BBMP/EE/BTP/WO/48/2022-23
of Receipt	:	28-06-2022
tomer ID	:	Darin Bottom Raft-Katgenahalli, Venkatappa Building To Medical Shop
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	02/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Darin Bottom Raft-Katgenahalli, Venkatappa Building To Medical Shop	M20	25/06/2022	02/07/2022	149.42 X 149.37 X 150.38	22318	8.985	370.9	16.6	17.3
Darin Bottom Raft-Katgenahalli, Venkatappa Building To Medical Shop	M20	25/06/2022	02/07/2022	149.66 X 151.83 X 151.21	22722	8.118	423.8	18.7	
Darin Bottom Raft-Katgenahalli, Venkatappa Building To Medical Shop	M20	25/06/2022	02/07/2022	149.94 X 150.28 X 149.22	22532	8.501	376.7	16.7	

e results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/07/2022

D	:	CP-2022-12-14-16
ct Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
cy	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
omer's Reference	:	BBMP/EE/BTP/WO/48/2022-23
of Receipt	:	28-06-2022
omer ID	:	Darin Bottom Raft-Katgenahalli, Venkatappa Building To Medical Shop
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	23/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Darin Bottom Raft-Katgenahalli, Venkatappa Building To Medical Shop	M20	25/06/2022	23/07/2022	149.07 X 149.37 X 151.24	22267	8.760	476.4	21.4	22.6
Darin Bottom Raft-Katgenahalli, Venkatappa Building To Medical Shop	M20	25/06/2022	23/07/2022	149.88 X 149.40 X 150.72	22392	8.793	504.3	22.5	
Darin Bottom Raft-Katgenahalli, Venkatappa Building To Medical Shop	M20	25/06/2022	23/07/2022	149.97 X 151.05 X 151.34	22653	8.708	539.6	23.8	

e results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2022-12-14-16 **Date: 04/07/2022**
ect Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
ncy	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
omer's Reference	:	BBMP/EE/BTP/WO/48/2022-23
of Receipt	:	29-06-2022
omer ID	:	Darin Side Wall-From Kamal House To Shiva House
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	03/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Darin Side Wall-From Kamal House To Shiva House	M20	26/06/2022	03/07/2022	151.97 X 150.86 X 151.61	22926	9.074	377.3	16.5	17.1
Darin Side Wall-From Kamal House To Shiva House	M20	26/06/2022	03/07/2022	151.99 X 149.80 X 150.70	22769	8.376	412.6	18.1	
Darin Side Wall-From Kamal House To Shiva House	M20	26/06/2022	03/07/2022	150.32 X 150.07 X 149.86	22558	9.017	377.1	16.7	

e results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

CIVIL Pro ★ Sig..... Date..... ★ BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2022-12-14-16	Date: 25/07/2022
ID	: Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).	
ct Name	: Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097	
cy	: BBMP/EE/BTP/WO/48/2022-23	
omer's Reference	: 29-06-2022	
of Receipt	: Darin Side Wall-From Kamal House To Shiva House	
omer ID	: 150X150X150 mm	
ple Type /Size	: M20 / 28 Days Compressive Strength	
ple grade/Age	: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5	
rence to BIS codes		
of test	: 24/07/2022	

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Darin Side Wall-From Kamal House To Shiva House	M20	26/06/2022	24/07/2022	150.04 X 151.32 X 149.83	22704	8.247	493.3	21.7	22.6
Darin Side Wall-From Kamal House To Shiva House	M20	26/06/2022	24/07/2022	149.02 X 149.20 X 150.74	22234	8.363	502.3	22.6	
Darin Side Wall-From Kamal House To Shiva House	M20	26/06/2022	24/07/2022	151.91 X 151.59 X 149.37	23028	8.315	539.1	23.4	

results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2022-12-14-16	Date: 04/07/2022
ID	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
ject Name	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
ncy	:	BBMP/EE/BTP/WO/48/2022-23
tomer's Reference	:	30-06-2022
e of Receipt	:	Darin Side Wall-Sri Channa Keshava Swami Provision Store
tomer ID	:	150X150X150 mm
ple Type /Size	:	M20 / 7 Days Compressive Strength
ple grade/Age	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
erence to BIS codes	:	04/07/2022
e of test	:	

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Darin Side Wall-Sri Channa Keshava Swami Provision Store	M20	27/06/2022	04/07/2022	151.17 X 149.35 X 150.45	22577	8.192	375.0	16.6	17.3
	Darin Side Wall-Sri Channa Keshava Swami Provision Store	M20	27/06/2022	04/07/2022	150.82 X 151.33 X 151.71	22824	8.444	423.0	18.5	
	Darin Side Wall-Sri Channa Keshava Swami Provision Store	M20	27/06/2022	04/07/2022	149.71 X 151.48 X 151.24	22677	8.875	381.8	16.8	

he results obtained are satisfactory as per standard requirements.

ಮಾರುಯಕ ತಂತ್ರಜ್ಞಾನದ ಅಭಿಯಂತರರ
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ಬಿ.ಟಿ.ಎಂ.ಐ, ಬೆಂಗಳೂರು-76

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2022-12-14-16	**Date: 25/07/2022**
ID	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
ct Name cy	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
omer's Reference	:	BBMP/EE/BTP/WO/48/2022-23
of Receipt	:	30-06-2022
omer ID	:	Darin Side Wall-Sri Channa Keshava Swami Provision Store
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	25/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Darin Side Wall-Sri Channa Keshava Swami Provision Store	M20	27/06/2022	25/07/2022	151.82 X 149.02 X 151.89	22624	8.492	496.2	21.9	22.7
Darin Side Wall-Sri Channa Keshava Swami Provision Store	M20	27/06/2022	25/07/2022	149.44 X 151.55 X 149.13	22648	8.869	504.0	22.3	
Darin Side Wall-Sri Channa Keshava Swami Provision Store	M20	27/06/2022	25/07/2022	150.01 X 150.43 X 149.02	22566	8.574	540.7	24.0	

e results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2022-12-14-16	Date: 02/07/2022
ID	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
ject Name	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
y	:	BBMP/EE/BTP/WO/48/2022-23
tomer's Reference	:	28-06-2022
e of Receipt	:	Culvert Bottom Raft-Sri Channa Keshava Swami Provision Store
tomer ID	:	150X150X150 mm
ple Type /Size	:	M20 / 7 Days Compressive Strength
ple grade/Age	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
erence to BIS codes	:	02/07/2022
e of test	:	

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Culvert Bottom Raft-Sri Channa Keshava Swami Provision Store	M20	25/06/2022	02/07/2022	150.47 X 150.07 X 151.48	22581	8.146	375.9	16.6	17.4
	Culvert Bottom Raft-Sri Channa Keshava Swami Provision Store	M20	25/06/2022	02/07/2022	149.64 X 151.01 X 151.03	22596	8.688	427.9	18.9	
	Culvert Bottom Raft-Sri Channa Keshava Swami Provision Store	M20	25/06/2022	02/07/2022	150.19 X 149.38 X 149.34	22435	8.450	372.9	16.6	

e results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2022-12-14-16	Date: 23/07/2022
ID	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
ect Name	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
ncy	:	BBMP/EE/BTP/WO/48/2022-23
tomer's Reference	:	28-06-2022
e of Receipt	:	Culvert Bottom Raft-Sri Channa Keshava Swami Provision Store
tomer ID	:	150X150X150 mm
ple Type /Size	:	M20 / 28 Days Compressive Strength
ple grade/Age	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
rence to BIS codes	:	23/07/2022
e of test	:	

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Bottom Raft-Sri Channa Keshava Swami Provision Store	M20	25/06/2022	23/07/2022	150.64 X 149.97 X 149.92	22591	8.508	490.2	21.7	22.9
Culvert Bottom Raft-Sri Channa Keshava Swami Provision Store	M20	25/06/2022	23/07/2022	150.17 X 150.14 X 149.20	22547	8.697	515.8	22.9	
Culvert Bottom Raft-Sri Channa Keshava Swami Provision Store	M20	25/06/2022	23/07/2022	149.58 X 150.63 X 150.55	22531	8.764	540.5	24.0	

e results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2022-12-14-16	Date: 04/07/2022
ID	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
ject Name	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
ncy	:	BBMP/EE/BTP/WO/48/2022-23
tomer's Reference	:	30-06-2022
e of Receipt	:	Culvert Side Wall-Palanahalli main Road
tomer ID	:	150X150X150 mm
nple Type /Size	:	M20 / 7 Days Compressive Strength
nple grade/Age	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
erence to BIS codes	:	04/07/2022
e of test		

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Culvert Side Wall-Palanahalli main Road	M20	27/06/2022	04/07/2022	150.40 X 151.80 X 151.18	22831	8.728	375.7	16.5	17.0
	Culvert Side Wall-Palanahalli main Road	M20	27/06/2022	04/07/2022	151.09 X 151.21 X 151.89	22846	8.524	420.9	18.4	
	Culvert Side Wall-Palanahalli main Road	M20	27/06/2022	04/07/2022	151.88 X 151.64 X 150.58	23030	9.028	372.4	16.2	

The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/07/2022

D	:	CP-2022-12-14-16
ct Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
y	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
mer's Reference	:	BBMP/EE/BTP/WO/48/2022-23
of Receipt	:	30-06-2022
mer ID	:	Culvert Side Wall-Palanahalli main Road
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 28 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	25/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Side Wall-Palanahalli main Road	M20	27/06/2022	25/07/2022	150.79 X 150.76 X 150.10	22733	8.224	492.2	21.6	22.5
Culvert Side Wall-Palanahalli main Road	M20	27/06/2022	25/07/2022	149.30 X 149.18 X 149.35	22272	8.397	502.1	22.5	
Culvert Side Wall-Palanahalli main Road	M20	27/06/2022	25/07/2022	150.36 X 149.55 X 151.14	22485	8.535	522.3	23.2	

results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/07/2022

ID	:	CP-2022-12-14-16
ct Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
cy	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
omer's Reference	:	BBMP/EE/BTP/WO/48/2022-23
of Receipt	:	27-06-2022
omer ID	:	Darin Bottom Raft-Palanahalli Road
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	01/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Darin Bottom Raft-Palanahalli Road	M20	24/06/2022	01/07/2022	149.21 X 150.26 X 151.77	22420	8.168	364.6	16.3	17.1
Darin Bottom Raft-Palanahalli Road	M20	24/06/2022	01/07/2022	149.70 X 149.36 X 151.05	22360	8.104	412.2	18.4	
Darin Bottom Raft-Palanahalli Road	M20	24/06/2022	01/07/2022	151.27 X 149.55 X 151.64	22624	8.290	375.7	16.6	

results obtained are satisfactory as per standard requirements.

ಅಧಿಕೃತ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಧಿಕಾರಿಯವರ ಜ್ಞಾಪನಾರ್ಥವಾಗಿ
ಬಿ ಬಿ ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-೨೩

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/07/2022

D	:	CP-2022-12-14-16
ct Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
cy	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
mer's Reference	:	BBMP/EE/BTP/WO/48/2022-23
of Receipt	:	27-06-2022
mer ID	:	Darin Bottom Raft-Palanahalli Road
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 28 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	22/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Darin Bottom Raft-Palanahalli Road	M20	24/06/2022	22/07/2022	150.03 X 151.64 X 149.43	22749	8.896	478.0	21.0	22.4
Darin Bottom Raft-Palanahalli Road	M20	24/06/2022	22/07/2022	151.74 X 149.06 X 150.43	22618	8.431	518.1	22.9	
Darin Bottom Raft-Palanahalli Road	M20	24/06/2022	22/07/2022	151.84 X 151.54 X 149.25	23009	8.475	537.4	23.4	

results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

ID	:	CP-RW-2022-12-14-16 **Date: 27-06-2022**
ect Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
ncy	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
tomer Reference	:	BBMP/EE/BTP/WO/48/2022-23
e of Receipt	:	25-06-2022
e of Mix	:	WMM (Wet Mix Macadam)
e of test	:	25-06-2022
n Dry Weight	:	11000 Grams

S Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	225	225	2.0	98.0	95-100
22.4	2585	2810	25.5	74.5	60-80
11.2	2245	5055	46.0	54.0	40-60
4.75	2189	7244	65.9	34.1	25-40
2.36	1525	8769	79.7	20.3	15-30
0.6	1225	9994	90.9	9.1	8-22
0.075	638	10632	96.7	3.3	0-5

e results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

ID	:	CP-RW-2022-12-14-16 **Date: 27-06-2022**
ect Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
ncy	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
tomer Reference	:	BBMP/EE/BTP/WO/48/2022-23
e of Receipt	:	25-06-2022
e of Mix	:	WMM (Wet Mix Macadam)
e of test	:	25-06-2022
n Dry Weight	:	11000 Grams

S Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	402	402	3.7	96.3	95-100
22.4	2189	2591	23.6	76.4	60-80
11.2	2056	4647	42.2	57.8	40-60
4.75	2165	6812	61.9	38.1	25-40
2.36	1535	8347	75.9	24.1	15-30
0.6	1589	9936	90.3	9.7	8-22
0.075	596	10532	95.7	4.3	0-5

e results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

ID	:	CP-RW-2022-12-14-16 **Date: 27-06-2022**
ect Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
ncy	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
tomer Reference	:	BBMP/EE/BTP/WO/48/2022-23
e of Receipt	:	25-06-2022
e of Mix	:	WMM (Wet Mix Macadam)
e of test	:	25-06-2022
n Dry Weight	:	11000 Grams

S Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	425	425	3.9	96.1	95-100
22.4	2056	2481	22.6	77.4	60-80
11.2	1956	4437	40.3	59.7	40-60
4.75	2285	6722	61.1	38.9	25-40
2.36	1469	8191	74.5	25.5	15-30
0.6	1720	9911	90.1	9.9	8-22
0.075	756	10667	97.0	3.0	0-5

e results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

	:	CP-RW-2022-12-14-16 **Date: 27-06-2022**
ID ect Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
ncy	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
tomer Reference	:	BBMP/EE/BTP/WO/48/2022-23
e of Receipt	:	25-06-2022
e of Mix	:	WMM (Wet Mix Macadam)
e of test	:	25-06-2022
n Dry Weight	:	11000 Grams

S Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	430	430	3.9	96.1	95-100
22.4	2245	2675	24.3	75.7	60-80
11.2	1869	4544	41.3	58.7	40-60
4.75	2145	6689	60.8	39.2	25-40
2.36	1369	8058	73.3	26.7	15-30
0.6	820	8878	80.7	19.3	8-22
0.075	1765	10643	96.8	3.2	0-5

e results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST RESULTS OF GRADATION FOR WMM

	: CP-RW-2022-12-14-16	**Date: 27-06-2022**
ID ject Name	: Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).	
ncy	: Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097	
tomer Reference	: BBMP/EE/BTP/WO/48/2022-23	
te of Receipt	: 25-06-2022	
pe of Mix	: WMM (Wet Mix Macadam)	
te of test	: 25-06-2022	
en Dry Weight	: 11000	Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	490	490	4.5	95.5	95-100
22.4	2298	2788	25.3	74.7	60-80
11.2	1796	4584	41.7	58.3	40-60
4.75	2063	6647	60.4	39.6	25-40
2.36	1258	7905	71.9	28.1	15-30
0.6	860	8765	79.7	20.3	8-22
0.075	1798	10563	96.0	4.0	0-5

e results obtained are satisfactory as per standard requirements.

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Quality Manager

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

	:	CP-RW-2022-12-14-16 **Date: 27-06-2022**
ID ject Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
ency	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
stomer Reference	:	BBMP/EE/BTP/WO/48/2022-23
te of Receipt	:	25-06-2022
pe of Mix	:	WMM (Wet Mix Macadam)
te of test	:	25-06-2022
en Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	215	215	2.0	98.0	95-100
22.4	2547	2762	25.1	74.9	60-80
11.2	2285	5047	45.9	54.1	40-60
4.75	2172	7219	65.6	34.4	25-40
2.36	1525	8744	79.5	20.5	15-30
0.6	1258	10002	90.9	9.1	8-22
0.075	658	10660	96.9	3.1	0-5

e results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-26

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	CP-RW-2022-12-14-16 **Date: 27-06-2022**
Project Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
Agency	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
Customer Reference	:	BBMP/EE/BTP/WO/48/2022-23
Date of Receipt	:	25-06-2022
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	25-06-2022

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	298.5	298.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	78.5	74.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	219.4	223.9
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.6	0.5
5	Aggregate impact value	(B/A)*100	26.3	24.8
6	Aggregate impact value (Mean of two tests)	Pecentage	25.6	

The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

	:	**CP-RW-2022-12-14-16** **Date: 27-06-2022**
ID ject Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
ency	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
stomer Reference	:	BBMP/EE/BTP/WO/48/2022-23
te of Receipt	:	25-06-2022
pe of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
e of test	:	25-06-2022

ult:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	13.1%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.5%	
mbined Flakiness and Elongation Index for WMM	24.6%	

e results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

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Certificate No.: TC-5548

TERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

b ID	:	CP-RW-2022-12-14-16 **Date: 27-06-2022**
ject Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
ency	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
stomer Reference	:	BBMP/EE/BTP/WO/48/2022-23
te of Receipt	:	25-06-2022
pe of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
te of test	:	25-06-2022

ult:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.7%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.1%	
mbined Flakiness and Elongation Index for WMM	22.8%	

e results obtained are satisfactory as per standard requirements.

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Quality Manager

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ.

End of Report

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

TERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

	: CP-RW-2022-12-14-16	**Date: 27-06-2022**
b ID ject Name	: Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).	
ency	: Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097	
stomer Reference	: BBMP/EE/BTP/WO/48/2022-23	
te of Receipt	: 25-06-2022	
pe of Mix	: Coarse Aggregate for WMM (Wet Mix Macadam)	
te of test	: 25-06-2022	

sult:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.2%	
mbined Flakiness and Elongation Index for WMM	22.0%	

he results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ನಡವಳಿಕೆ ಕಾರ್ಯನಿರ್ವಹಣಾಧಿಕಾರಿಗಳು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ

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TEST RESULTS OF GRADATION FOR WMM

	:	CP-RW-2022-12-14-16 **Date: 02-07-2022**
b ID ject Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
ency	:	BBMP/EE/BTP/WO/48/2022-23
stomer Reference	:	30-06-2022
te of Receipt	:	WMM (Wet Mix Macadam)
pe of Mix	:	30-06-2022
te of test	:	11000 Grams
en Dry Weight		

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	201	201	1.8	98.2	95-100
22.4	2388	2589	23.5	76.5	60-80
11.2	2175	4764	43.3	56.7	40-60
4.75	2077	6841	62.2	37.8	25-40
2.36	1765	8606	78.2	21.8	15-30
0.6	1145	9751	88.6	11.4	8-22
0.075	825	10576	96.1	3.9	0-5

he results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

b ID	:	CP-RW-2022-12-14-16 Date: 02-07-2022
bject Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
ency	:	Sri.K.R Santhosh Kumar No.4, Samrudhi, AVR Block 1st, A Main , Dhanalakshmi Layout, Virupakshapura, Bangalore-560097
stomer Reference	:	BBMP/EE/BTP/WO/48/2022-23
te of Receipt	:	30-06-2022
pe of Mix	:	WMM (Wet Mix Macadam)
te of test	:	30-06-2022
en Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	355	355	3.2	96.8	95-100
22.4	2144	2499	22.7	77.3	60-80
11.2	2348	4847	44.1	55.9	40-60
4.75	2178	7025	63.9	36.1	25-40
2.36	1548	8573	77.9	22.1	15-30
0.6	1299	9872	89.7	10.3	8-22
0.075	688	10560	96.0	4.0	0-5

e results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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TEST RESULTS OF GRADATION FOR WMM

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oject Name	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) Package Consists of 6 Works).
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stomer Reference	:	BBMP/EE/BTP/WO/48/2022-23
te of Receipt	:	30-06-2022
pe of Mix	:	WMM (Wet Mix Macadam)
te of test	:	30-06-2022
en Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	243	243	2.2	97.8	95-100
22.4	2144	2387	21.7	78.3	60-80
11.2	2278	4665	42.4	57.6	40-60
4.75	2242	6907	62.8	37.2	25-40
2.36	1754	8661	78.7	21.3	15-30
0.6	1258	9919	90.2	9.8	8-22
0.075	685	10604	96.4	3.6	0-5

e results obtained are satisfactory as per standard requirements.

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te of Receipt	:	30-06-2022
pe of Mix	:	WMM (Wet Mix Macadam)
te of test	:	30-06-2022
en Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	301	301	2.7	97.3	95-100
22.4	2278	2579	23.4	76.6	60-80
11.2	2298	4877	44.3	55.7	40-60
4.75	2344	7221	65.6	34.4	25-40
2.36	1799	9020	82.0	18.0	15-30
0.6	1005	10025	91.1	8.9	8-22
0.075	722	10747	97.7	2.3	0-5

e results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	355	355	3.2	96.8	95-100
22.4	2145	2500	22.7	77.3	60-80
11.2	2256	4756	43.2	56.8	40-60
4.75	2077	6833	62.1	37.9	25-40
2.36	1747	8580	78.0	22.0	15-30
0.6	1201	9781	88.9	11.1	8-22
0.075	922	10703	97.3	2.7	0-5

e results obtained are satisfactory as per standard requirements.

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